

Title (en)
TRANSDUCTION UNIT OF NON-CONTACT HUMAN BODY SLEEP PHYSIOLOGICAL PARAMETER DETECTION SENSOR

Title (de)
ÜBERTRAGUNGSEINHEIT EINES SENSORS ZUR BERÜHRUNGSLOSEN DETEKTION PHYSIOLOGISCHER SCHLAFPARAMETER DES MENSCHLICHEN KÖRPERS

Title (fr)
UNITÉ DE TRANSDUCTION DE CAPTEUR DE DÉTECTION DE PARAMÈTRE PHYSIOLOGIQUE DE SOMMEIL DE CORPS HUMAIN SANS CONTACT

Publication
EP 4131439 A1 20230208 (EN)

Application
EP 21775886 A 20210302

Priority
• CN 202010216305 A 20200325
• CN 2021078590 W 20210302

Abstract (en)
A transduction unit of a non-contact human sleep physiological parameter detection sensor, which transduction unit belongs to the technical field of piezoelectric films. The transduction unit includes a circuit board (1), a piezoelectric film (2) and conductive adhesives, wherein the piezoelectric film (2) includes a film sheet (21) and two electrodes, which are respectively arranged on two side faces of the film sheet; the piezoelectric film (2) is attached to the circuit board (1); and the two electrodes of the piezoelectric film (2) are respectively electrically connected to two exposed pad electrodes on the circuit board (1) by means of the conductive adhesives. The solution has a simple structure, is easily assembled and produced on a large scale, and also has high electromechanical conversion efficiency.

CPC (source: CN EP US)
A61B 5/4806 (2013.01 - US); **G01L 1/16** (2013.01 - US); **H10N 30/302** (2023.02 - CN EP US); **H10N 30/704** (2024.05 - CN EP); **H10N 30/875** (2023.02 - CN EP US); **H10N 30/883** (2023.02 - CN US); **A61B 5/4806** (2013.01 - EP); **H10N 30/073** (2023.02 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4131439 A1 20230208; CN 111211218 A 20200529; US 2023088408 A1 20230323; WO 2021190255 A1 20210930

DOCDB simple family (application)
EP 21775886 A 20210302; CN 202010216305 A 20200325; CN 2021078590 W 20210302; US 202117908910 A 20210302